

Section 10-4: Inscribed Angles

By the end of this lesson, you should be able to answer:

- How do you find measures of inscribed angles?
- How do you find measures of angles on inscribed polygons?

Vocabulary:

1. Inscribed Angle

2. Intercepted Arc

Theorem 10.6 - Inscribed Angle Theorem

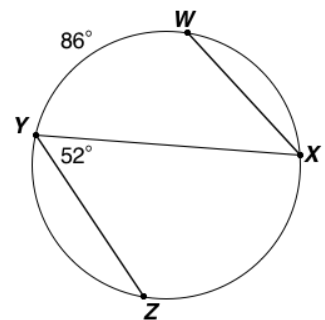
Theorem 10.7 - Two Inscribed Angles

Theorem 10.8 - Inscribed Angle and Diameters

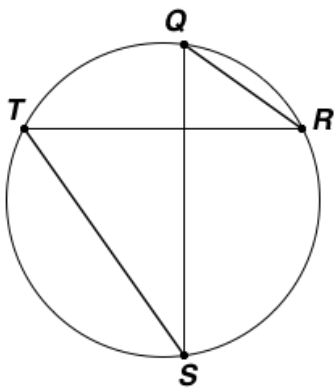
Example 1: Find each measure.

a. $m\angle YXW$

b. $m\widehat{XZ}$



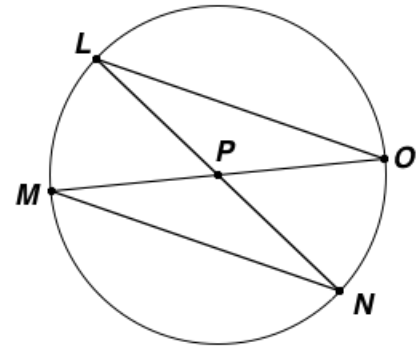
Example 2: Find $m\angle QRT$ when $m\angle QRT = (12x - 13)^\circ$ and $m\angle QST = (9x + 2)^\circ$.



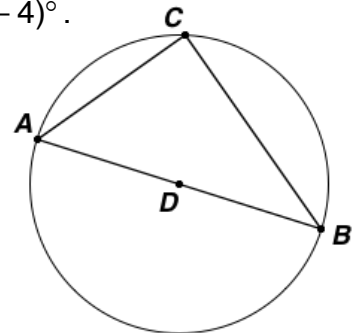
Example 3: Prove the following.

Given: $\widehat{LO} \cong \widehat{MN}$

Prove: $\triangle MNP \cong \triangle LOP$



Example 4: Find $m\angle B$ when $m\angle A = (x + 4)^\circ$ and $m\angle B = (8x - 4)^\circ$.



Problem Set:

"You're alive. Do something. The directive in life, the moral imperative was so uncomplicated. It could be expressed in single words, not complete sentences. It sounded like this: Look. Listen. Choose. Act." – Barbara Hall